Abstract Submitted to the International Conference on Strongly Correlated Electron Systems University of Michigan, Ann Arbor August 6-10, 2001

Gravitoelectromagnetic superconductivity. A theoretical approach of Podkletnov's effect.

M. Agop¹, P. D.Ioannou², C. Gh. Buzea³

- ¹ Department of Physics, Technical "Gh. Asachi" University, Iasi, Romania
- Nuclear and Particle Physics Section, Department of Physics, University of Athens, Athens, Greece
- ³ Institute of Technical Physics, Iasi, Romania

The gravito-electromagnetic Meissner's effect by the superposition of the linear gravitational and electromagnetic fields is analysed. In such a context, a weak gravitational shielding for a bulk high temperature superconductor results (Podkletnov's effect).